ENVIRONMENTAL CHEMISTS

Date of Report: March 19, 1993 Date Received: March 12, 1993

Project: 7238, Tank Quality, PO# M28056

RESULTS FROM THE ANALYSIS OF ACID SAMPLES FOR % ACID AS HNO₃

Sample #	% Acid as HNO3
M28056A	4.6%
M28056B	2.7%
Quality Assurance	
Blank	<0.1%
M28056A (Duplicate)	4.3%

ENVIRONMENTAL CHEMISTS

Date of Report: March 19, 1993 Date Received: March 12, 1993

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RESULTS FROM THE ANALYSIS OF THE CAUSTIC SAMPLE FOR % HYDROXIDE AS NaOH

Sample # % Hydroxide as NaOH

M28056C 0.96%

Quality Assurance

Blank <0.01%

M28056C (Duplicate)

0.88%

PRIEDMAN & BRUYA, INC. 3008-B 16th Avenue West Seattle, WA 98119

SAMPLE CHAIN OF CUSTODY

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Company Alaskan	Copper Works		Contact	GERELL	Thompso	~	
aggress (a)/(c) to /	1 14-X/14-20CM . 31		Contact_				
City, State, Zip Seattle	WA 98134						
Phone # (236) 623.	5800 X 218		Date	3/12/93			
SITE NO.	PROJECT NAME			PURCH	IASE ORDER #		
7238 .	TANK Quelit	1		m 28	3056		
SAMPLERS (signature)					CT LOCATION		
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REMARKS					E DISPOSAL INFO	ORM.	}
Sample "C" the cof the Malerial	pakite Product E safety Data Sheed	nclosed is	A. Copy	N S	Dispose after 30 Return Samples Call for Instruction	•	
SAMPLE #	Date/Time	Type of	# of	Lab	Analyses		
	Sampled	Sample	Jars	Sample #	Requested	A 1	
m 28056 A	8/2/93 11:15 Am	Acid	1	38123	% of	Acid	
	2/	41122				A (
m 28056B	3/2/58 11:15 An	Nitec Acid	1	38124	16 of	Acid	
	7//	DANILO					
m 28056C	3/n/93 11:15 Ar	m-3	/	38125	% Dityo	boxde e	- Mag
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Received by:	Mark 2	- Perin	1 7-DI	-	3/12/	93 (2)	.550
Relinquished by:							
Received by:							
L							

ENVIRONMENTAL CHEMISTS

Andrew John Friedman James E. Bruya, Ph.D. (206) 285-8282 3008-B 16th Avenue West Seattle, WA 98119 FAX: (206) 283-5044

DUPLICATE COPY

March 19, 1993

INVOICE # 93ACU0319-1

Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project 7238, Tank Quality, PO# M28056: Results of testing requested by Gerald Thompson, Project Leader and submitted on March 12, 1993.

2 acid samples analyzed for				
% Acid as HNO ₃				
@ \$25 per sample			\$ 50.0	0
1 caustic sample analyzed for				
% Hydroxide as NaOH				
@ \$25 per sample			<u>25.0</u>	<u>)0</u>
Amount Due			\$ 75.0)0

ENVIRONMENTAL CHEMISTS

Andrew John Friedman James E. Bruya, Ph.D. (206) 285-8282 3008-B 16th Avenue West Seattle, WA 98119 FAX: (206) 283-5044

March 19, 1993

Gerald Thompson, Project Leader Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Enclosed are the results from the testing of material submitted on March 12, 1993 from Project 7238, Tank Quality, PO# M28056.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

Mark Z Perin Chemist

MZP/sao

Enclosures